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Director of Logistics

2 MAY 1956

PLEASE RETURN TO
ENGINEERING DIVISION

Director of Communications

Request for Assignment of Task 5 to Contract [redacted]
[redacted]

Reference [redacted] with ENC 6-462

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1. This Office has a requirement to develop a recorder whose physical specifications and operating performance are generally similar to the existing units developed under Task 2, Contract [redacted], but whose technical specifications have been sharply altered. Discussions between our engineers and [redacted] personnel have resulted in the submission of a proposal, herewith attached.

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2. It is requested that Task 5 be assigned to accomplish the work as set forth in this proposal, this work to be concurrent with the continuing development of the recorder now being developed under Task 2 of Contract [redacted]

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3. Attached is Requisition No. MSB 56-379 in the amount of \$25,311.00 chargeable to Allotment No. 6-7912-20-601. The association of this Task and Contract with the Agency shall be SECRET, but all equipment and engineering reports will be UNCLASSIFIED. The project engineer assigned to this Task is [redacted]

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Attachments:

(INCOMPLETE)

- (1) Proposal, as above
- (2) Requisition No. MSB 56-379
- (3) Attachment "A" - Deliverable Items

Coordination:

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OC-E/R&D-EP/FCS:mmm (27 April 1956)

ccc R&D Subject File
OC-A [redacted]

OC-P (RDL)

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OC-SPD/AFB
MSB (2)
R&D Vital File
Obligation File
Chrono
Dev-ep

OC-1

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[redacted]

OC-SPD/AFB

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CONFIDENTIAL**Proposal for High Frequency Magnetic Tape Recorder/Reproducer**

This proposal sets forth the required engineering, time and approximate costs to produce one (1) prototype and two (2) models of a magnetic tape recorder having the following characteristics:

- | | |
|-----------------------|---|
| 1. Frequency Response | 4.5 kcs to 25 kcs \pm 3db |
| 2. Power Supply | self-contained (batteries) |
| 3. Size | as specified for equipment in Task II of <input type="text"/> |
| 4. Recording Time | approximately 3 hours |
| 5. Linear Tape Speed | approximately 18 inches per sec. |
| 6. Signal-to-Noise | 40 db |

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Some of the basic engineering and design of the recorder/reproducer currently being developed under Task II, will be utilized in producing the prototype of this new equipment.

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To accomplish this task it will be necessary to:

- a. Investigate various mechanical drive systems to determine the design of a drive system that will permit the accelerated speeds required to attain the specified frequency response.
- b. Investigate motors and batteries to select the proper combination required to attain the power necessary for the high-speed drive system.
- c. Investigate and select or develop a miniature high frequency magnetic type recording/reproducing head.
- d. Design a transistor amplifier that is compatible to this machine and that will attain the frequency response required.

It is estimated that nine (9) months from the receipt of the award the prototype will be completed and that three (3) months after acceptance of the prototype

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the two (2) models will be available for delivery.

Cost Estimate

Total

\$25,311.00

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ATTACHMENT A

DELIVERABLE ITEMS

Item 1	Recorders, High Frequency Magnetic Tape Recorder Reproducer	3 each
Item 2	Operating Instruction and Maintenance Manual	5 each

DELIVERY

The contractor shall submit the first prototype model 9 months after the date of award. Following Government approval, and requests for design changes if any, the remaining two units shall be delivered within 90 days.

SHIPPING INSTRUCTIONS

The contractor will deliver all items and other Government loaned equipment, if any, f.o.b. the designated Government warehouse. Exact shipping instructions will be furnished when required.

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